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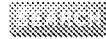
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1 Open runtime platform: flexibility with performance using interfaces
   Michal Cierniak, Brian T. Lewis, James M. Stichnoth
   November 2002 JGI '02: Proceedings of the 2002 joint ACM-ISCOPE conference on Java G
   Publisher: ACM
   Full text available: 📄 Pdf (300.99 KB)   Additional Information: full citation, abstract, references, cited by

   Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 40, Citation Count: 3

   According to conventional wisdom, interfaces provide flexibility at the cost of performa
   performance Java virtual machines today tightly integrate their core virtual machines v
   in-time compilers and garbage collectors to get ...

   Keywords: JVM, Java, dynamic compilation, garbage collection, interface design, inte
   time compilation, modular components, virtual machine

2 Practicing JUDO: Java under dynamic optimizations
   Michal Cierniak, Guei-Yuan Lueh, James M. Stichnoth
   August 2000 PLDI '00: Proceedings of the ACM SIGPLAN 2000 conference on Programmin
                design and implementation
   Publisher: ACM
   Full text available: 📄 Pdf (190.06 KB)   Additional Information: full citation, abstract, references, cited by

   Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 92, Citation Count: 57

   A high-performance implementation of a Java Virtual Machine (JVM) consists of efficier
   implementation of Just-In-Time (JIT) compilation, exception handling, synchronization
   and garbage collection (GC). These components are tightly coupled ...

   Also published in:
     May 2000 SIGPLAN Notices Volume 35 Issue 5

3 Proxy compilation of dynamically loaded Java classes with MoJo
   Matt Newsome, Des Watson
   July 2002   LCTES/ SCOPES '02: Proceedings of the joint conference on Languages, com
                for embedded systems: software and compilers for embedded systems
   Publisher: ACM
   Full text available: 📄 Pdf (358.62 KB)   Additional Information: full citation, abstract, references, index te

   Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 46, Citation Count: 1

   Interest in Java implementations for resource-constrained environments such as embe
   has been tempered by concerns regarding its efficiency. Current native compilers for J
   dramatic increases in efficiency, but have poor support for ...

   Keywords: AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hot
   time, native compilation, proxy compilation, remote compilation

Also published in:
  July 2002 SIGPLAN Notices Volume 37 Issue 7

4 A generic component model for building systems software
Geoff Coulson, Gordon Blair, Paul Grace, Francois Taiani, Ackbar Joolia, Kevin Lee, Jo Uey
Thirunavukkarasu Sivaharan
February 2008 Transactions on Computer Systems (TOCS) , Volume 26 Issue 1
Publisher: ACM
Full text available: ⬛ Pdf (603.88 KB)   Additional Information: full citation, abstract, references, index te

Bibliometrics: Downloads (6 Weeks): 77,   Downloads (12 Months): 934,   Citation Count: 1

Component-based software structuring principles are now commonplace at the applica
componentization is far less established when it comes to building low-level systems s
Although there have been pioneering efforts in applying componentization ...

Keywords: Component-based software, computer systems implementation

5 Constructing a metacircular Virtual machine in an exploratory programming enviro
David Ungar, Adam Spitz, Alex Ausch
October 2005 OOPSLA '05: Companion to the 20th annual ACM SIGPLAN conference on C
                 programming, systems, languages, and applications
Publisher: ACM
Full text available: ⬤ Mov (39:52 MIN),   ⬛ Pdf (755.82 KB) Additional Information: full citation, abstract, refe
                                                                                     index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 107,   Citation Count: 3

Can virtual machine developers benefit from religiously observing the principles more
for exploratory programming? To find out, we are concurrently constructing two artifac
entirely in Self (the Klein VM), and a specialized ...

Keywords: Klein, code reuse, debugger, exploratory programming, fix-and-continue,
liveness, meta-recursive, metacircularity, mirror-based reflection, object oriented, prot
reactivity, remote reflection, self, virtual machine

6 HDTrans: an open source, low-level dynamic instrumentation system
Swaroop Sridhar, Jonathan S. Shapiro, Eric Northup, Prashanth P. Bungale
June 2006   VEE '06: Proceedings of the 2nd international conference on Virtual execution
Publisher: ACM
Full text available: ⬛ Pdf (146.53 KB)   Additional Information: full citation, abstract, references, index te

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 61,   Citation Count: 3

Dynamic translation is a general purpose tool used for instrumenting programs at run
Performance of translated execution relies on balancing the cost of translation against
any optimizations achieved, and many current translators ...

Keywords: binary translation, dynamic instrumentation, dynamic translation

7 A middleware for experimentation on dynamic adaptation
Renato Maia, Renato Cerqueira, Fabio Kon
November 2005 ARM '05: Proceedings of the 4th workshop on Reflective and adaptive mic
                  systems
Publisher: ACM
Full text available: ⬛ Pdf (377.38 KB)   Additional Information: full citation, abstract, references, cited b)

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 24,   Citation Count: 2

This paper presents OiL, an adaptive middleware that aims at supporting experimenta(
different models and techniques for dynamic adaptation of distributed systems. OiL is ;
implementation written completely in Lua, an interpreted language ...

Keywords: CORBA, adaptive middleware, dynamic adaptation, programming abstract
middleware

8 Confessions of a used programming language salesman
   Erik Meijer
   October 2007 OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on
                    programming systems and applications
   Publisher: ACM
   Full text available: Pdf (313.76 KB)   Additional Information: full citation, abstract, references, index t∈

Bibliometrics: Downloads (6 Weeks): 31,   Downloads (12 Months): 369,   Citation Count: 0

For many years I had been fruitlessly trying to sell functional programming and Haskel
world problems such as scripting and data-intensive three-tier distributed web applicat
of widespread adoption of Haskell is a real pity. ...

Also published in:
   October 2007 SIGPLAN Notices Volume 42 Issue 10

9 Sifting out the mud: low level C++ code reuse
   Bjorn De Sutter, Bruno De Bus, Koen De Bosschere
   November 2002 OOPSLA '02: Proceedings of the 17th ACM SIGPLAN conference on Objec
                     programming, systems, languages, and applications
   Publisher: ACM
   Full text available: Pdf (1.35 MB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 44,   Citation Count: 14

More and more computers are being incorporated in devices where the available amou
limited. This contrasts with the increasing need for additional functionality and the nee
application development. While object-oriented programming ...

Keywords: code compaction, code size reduction

Also published in:
   November 2002 SIGPLAN Notices Volume 37 Issue 11